NMCI and Beyond…

Mr. Scott R. Randall

Space and Naval Warfare Systems Command

Director, Naval Networks and Information Assurance Directorate

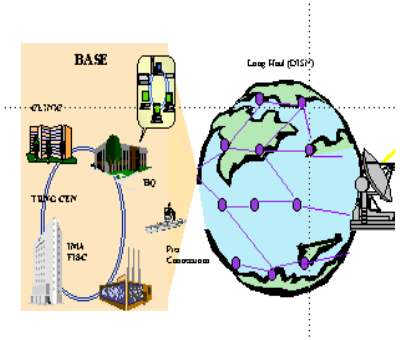
Aligning to the Future - Achieving Knowledge Superiority

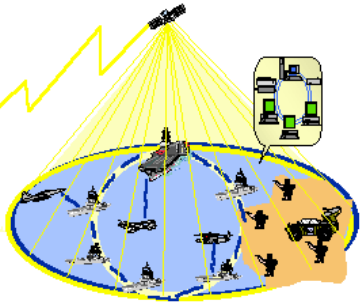
Today

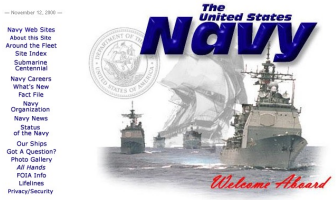
Tomorrow

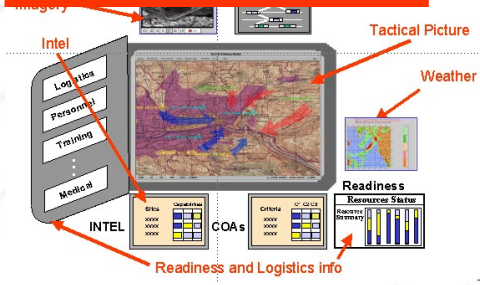
INFRASTRUCTURE + **CONTENT** = **Knowledge Superiority**

NMCI + **IT-21** + **Web Navy**







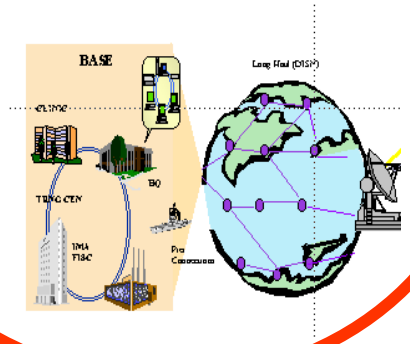


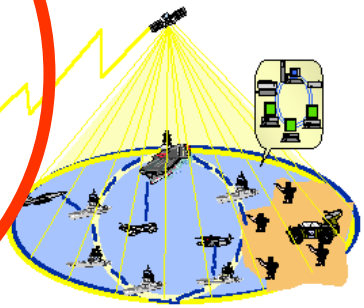
HORIZONTAL INTEGRATION

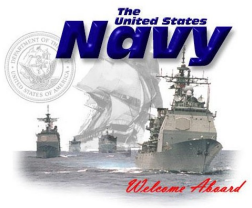
NMCI

INFRASTRUCTURE | **CONTENT**

NMCI + **IT-21** + **Web Navy**

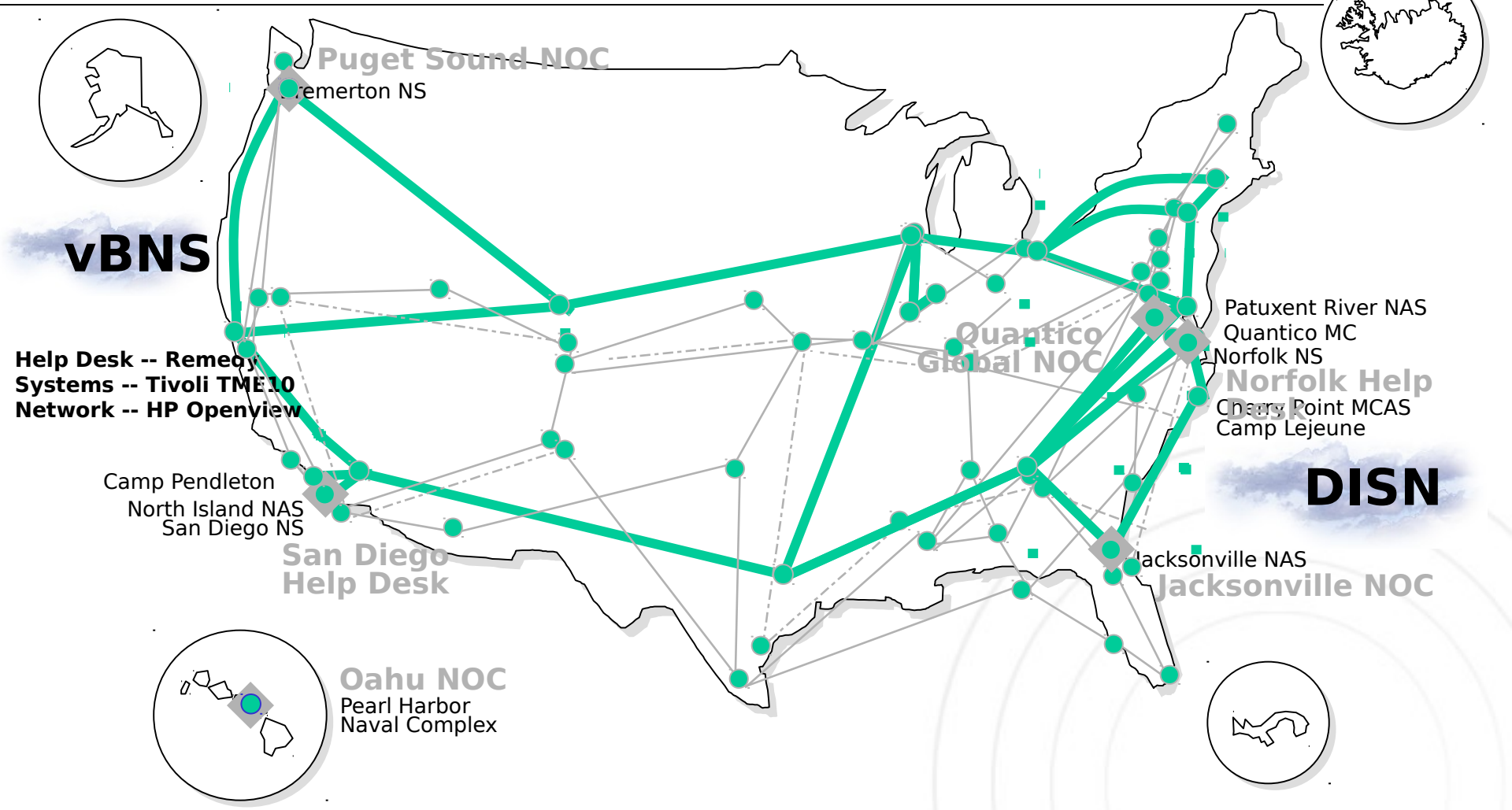




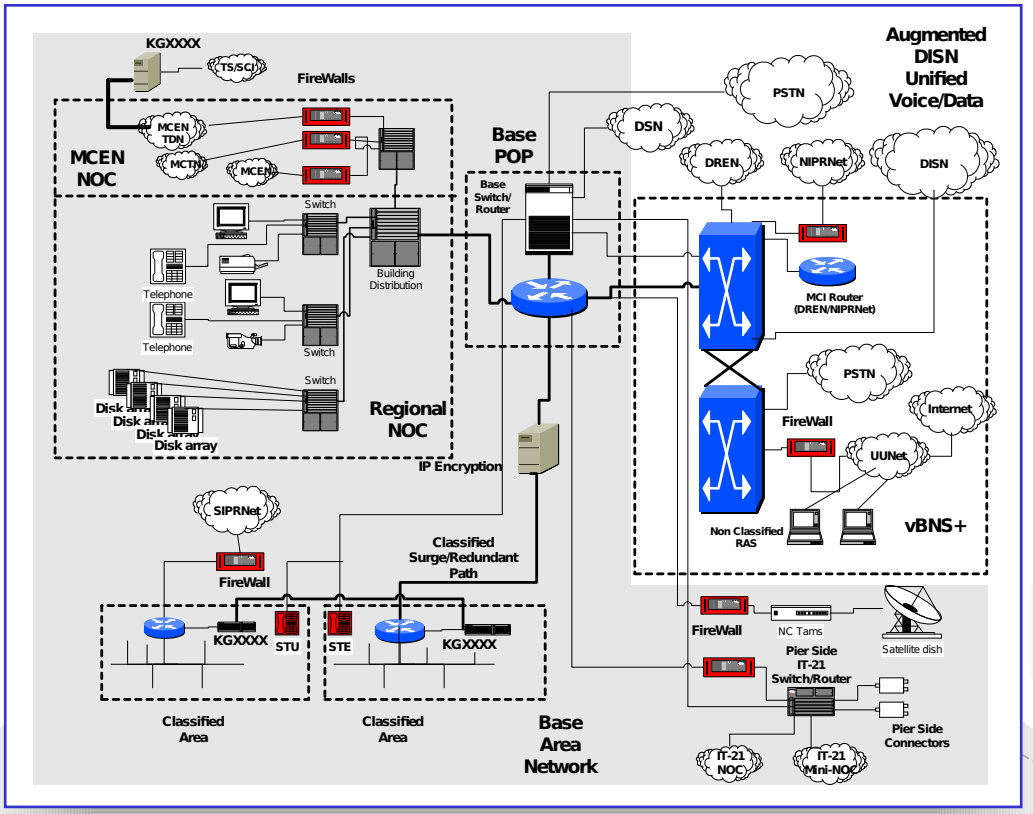


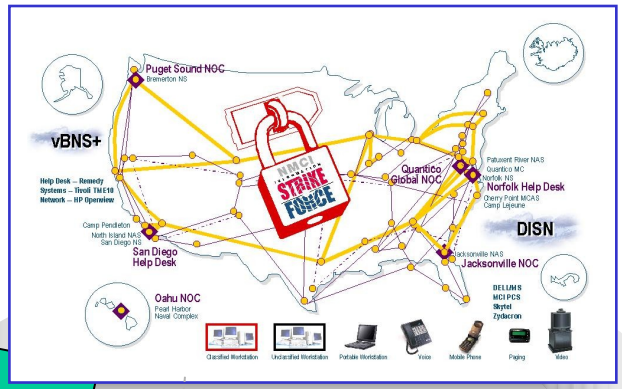
HORIZONTAL INTEGRATION

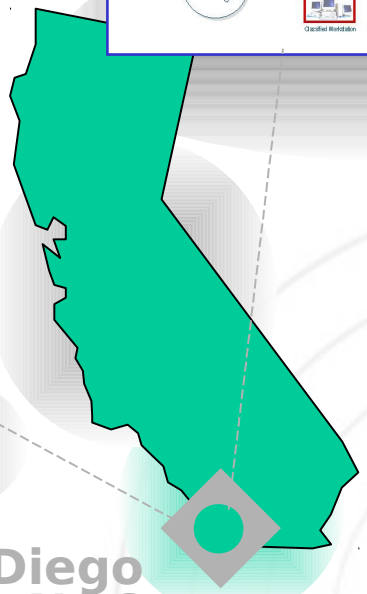
Network and Systems Management



Base Services

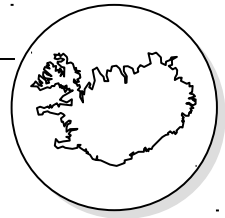






San Diego
Help Desk NOC

Service Sets



vBNS

Puget Sound NOC
Bremerton NS

Help Desk -- Remedy
Systems -- Tivoli TME10
Network -- HP Openview

Quantico
Global NOC

Patuxent River NAS
Quantico MC
Norfolk NS

Norfolk Help
Desk

Cherry Point MCAS
Camp Lejeune

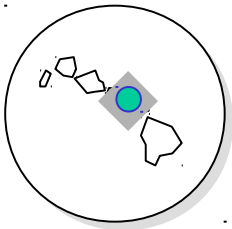
Camp Pendleton
North Island NAS
San Diego NS

DISN

San Diego
Help Desk

Jacksonville NAS

Jacksonville N



Oahu NOC
Pearl Harbor
Naval Complex

DELL/MS
MCI PCS
Skytel
Zydacron

Classified Workstation

Unclassified Workstation

Portable Workstation

Voice

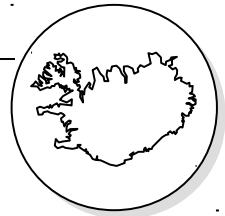
Mobile Phone

Paging

Video

OC-3 DISN DS/BMS
OC-48 vBNS+ Back

Security



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NMCI
INFORMATION
STRIKE
FORCE

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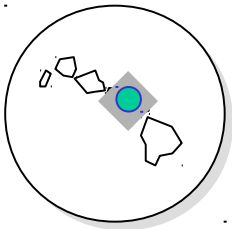

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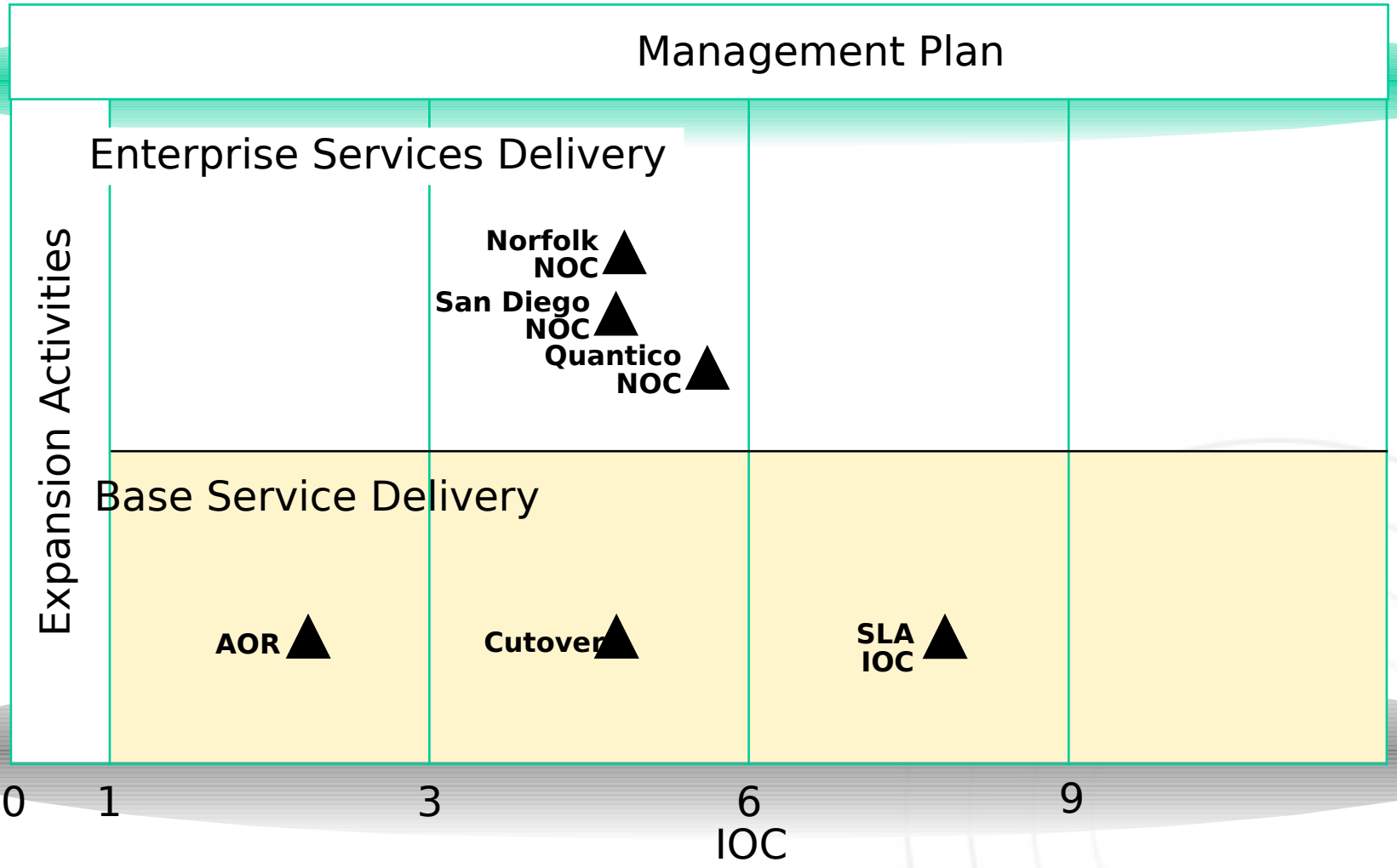
Best Value

- **<u>High End Provisioning</u>: 100 Mbps to the desktop**
- **<u>Cost Savings Sharing</u>: EDS will share equally with the Government any savings in its costs of providing basic services achieved after IOC.**
- **<u>Flexible Ordering Options</u>*:* Fixed workstation divided into five options which provide various levels of service to easily meet needs of the individualized activities and users**
- **<u>Small Business Participation</u>: Contractual commitment to acheive 40% small business participation (exceeds the solicitation requirement of 35%)**
- **<u>Guaranteed Employment for Transitioned Employees</u>: Contractually guaranteed employment for 3 years, with a 15% salary increase and a sign-on bonus to all DoN personnel who may be displaced.**

Integrated Master Schedule

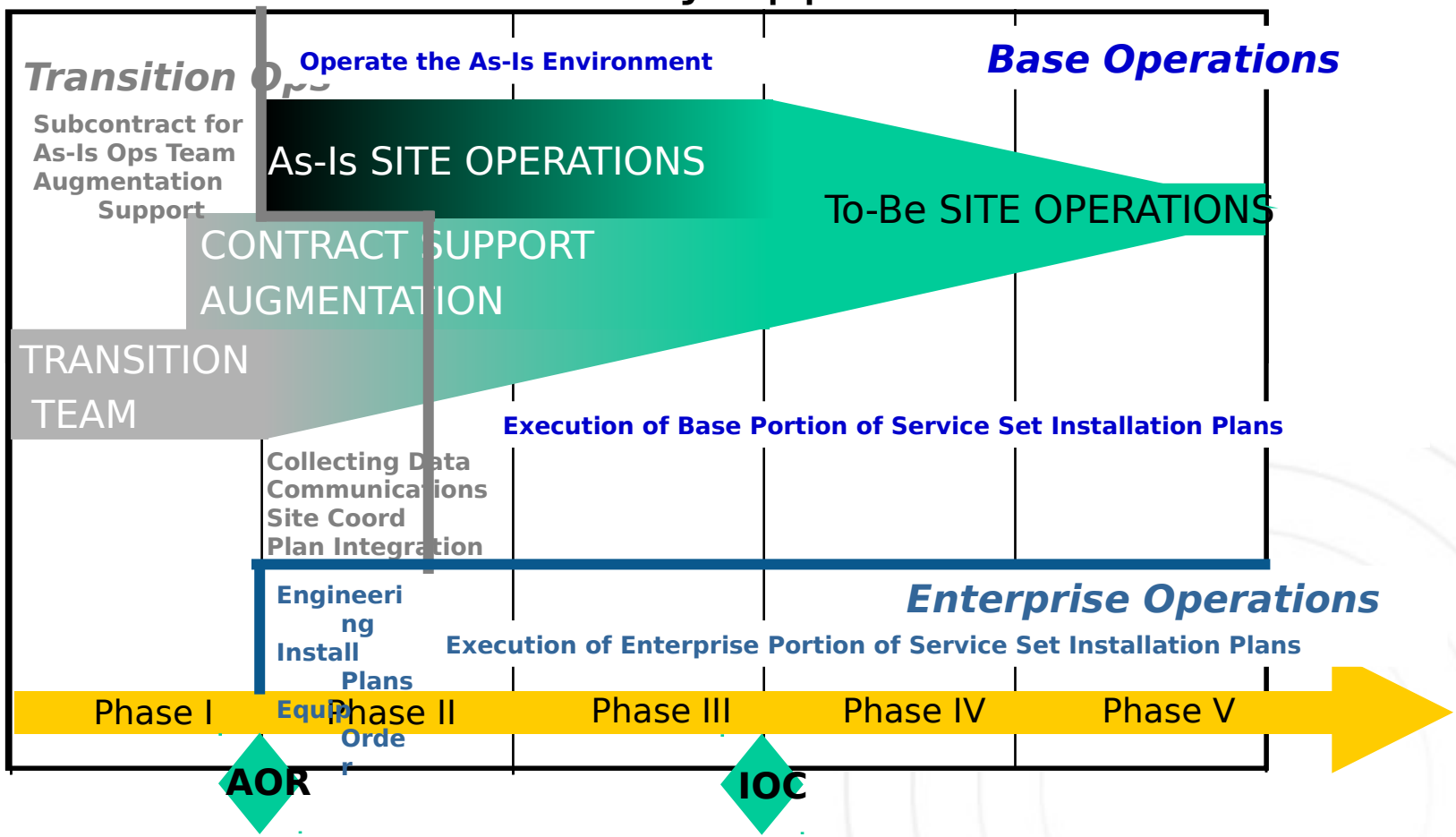
Three major components



Base Ops View Transition Activities

Our approach evolves service delivery

Evolutionary approach



NMCI Implementation

- Delays have significant impact
- Misunderstanding of NMCI contract – despite collaborative/educational efforts
- Revolutionary contract ----- Evolution of the contract
- Normal Internal processes inadequate
  - Scope/complexity
  - Oversight/ “rumor” control
- Landlord duties
- Test & Evaluation – Explosive growth
- Legacy Applications
  - Approx 4500 @ NAVAIR alone

Status

- Many lessons learned
  - Feedback into process
- Navy & EDS staffing coming up to speed
- Most 1st increment facilities identified & in work
- Contract configuration control process
- Most 1st increment AORs done
  - Strategic pause and T&E
  - “Staged” 2nd increment orders on ‘02

Where We're Going

- IT-21/ NMCI Infrastructure
- Horizontal Integration (HI)
- Web Enabling/Content

IT-21 Afloat Network

- Benefits of NMCI
  - –Sea Shore Rotation
  - –User Training
  - –Embarkables
- How do we maximize Benefits?
  - – Consistent Architecture/ Configuration
  - – Minimize Transition Issues Afloat/Ashore
  - – Maximize Leverage of Training and Experience

- What We Are Doing:
- Already merging to GIG-E Topology
- Establishing Sea Shore Rotation Process
  - Collocate Military DETs at GMOs
  - – NCTC will be “claimant” for oversight
  - – Billets will be PRIORITY ONE fill
- Evaluating leverage of NMCI training

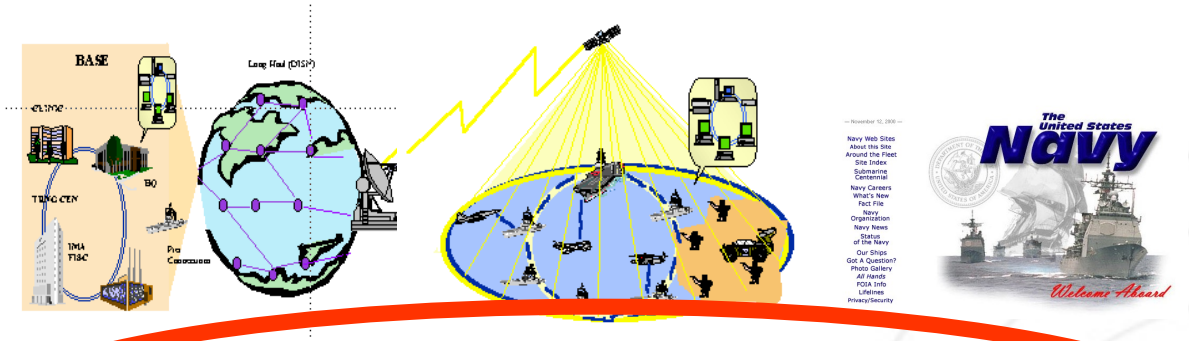
Issues

- Keeping up with the “Jones”
- HW/SW Refresh
- Acquisition Strategy

Horizontal Integration

INFRASTRUCTURE | **CONTENT**

NMCI + **IT-21** + **Web Navy**



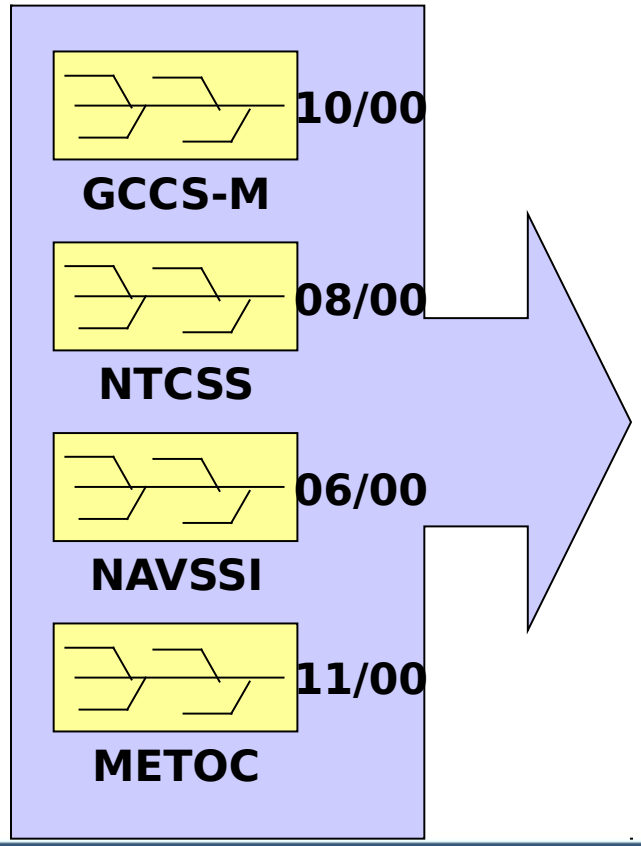
HORIZONTAL INTEGRATION

Why Horizontal Integration?

HI *IS* THE Next Step in SPAWAR's Product Line Consolidation Effort

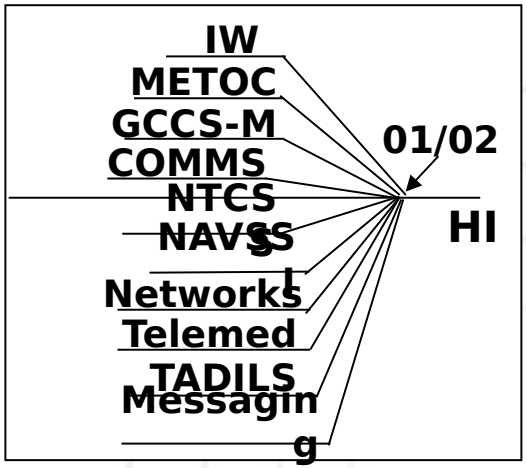
Today

Multiple Developments and Deliveries



Horizontal Integration

Single Development and Delivery



HI Capability Upgrades

- Traditional viewpoint:
  - Over 150 new or improved functional capabilities aligned along traditional “Program of Record” lines - - some high level samples include:

Combat Support	METOC	Cmd, Ctrl & Intel	SCI-Cryptologic	Networks
Aviation I-Maint	METOC DB	TADIL Integ	CDL-N Integ	BW Allocat / Priority
Aviation O-Maint	MET Img COP Integ	Broadcast Integ	TACRECCE Dist	Load Balance
A/C Status	Forcast & Analysis	COP Synch	Nat-Tactical Integ	Multicast
Ship I-Maint	Metoc Sensors & Obs	SCI Integ	New SOI's	Intrusion Det
Ship O-Maint	Sat Data Ingest	ATO Gen/Proc	Radiant Topaz	TACLANE
Afloat Supply	NITES II	Trk Replay	Help, Doc & Trng	PKI & Directory
Help, Doc & Trng	Help, Doc & Trng	J OPES Integ	Info Assurance	Colab App Share
Info Assurance	Info Assurance	Tac MIDB/OOB	Integ Log Spt	Web Replication
Integ Log Spt	Integ Log Spt	Image Integ		Comm of Interest
	TADILS	Video Integ		Help, Doc & Trng
	TADIL Mgmt & QA	PTW+ Integ		Info Assurance
	Multi TADIL Cap	IPL Integ	Transmission	Integ Log Spt
	S TADIL-J	Combat Sys Integ	Sub HDR	
	Help, Doc & Trng	Tgting & Lnd Trk	UHF Asymetric	Navigation
	Info Assurance	J STARS Integ	IMARSAT 128	Electronic Charting
	Integ Log Spt	C2WC	EHD MDR	Chart Server
		TAMPS I/F	SHF	DNC Correction
Medical	Model &Sim	P-3 Support	UHF LOS	ECDIS-N
SAMS	Op Plan COA Eval	Messaging	VHF LOS	Net Time Synch
Comp Radgrphy	RECCE Plan Gen	Readiness Mon	DMR	Celestial Nav
TMIP-J	Monte Carlo	Water Sp Mgmt	DWTS	Radar Integ
Help, Doc & Trng	Help, Doc & Trng	Help, Doc & Trng	Help, Doc & Trng	Help, Doc & Trng
Info Assurance	Info Assurance	Info Assurance	Info Assurance	Info Assurance
Integ Log Spt	Integ Log Spt	Integ Log Spt	Integ Log Spt	Integ Log Spt

Funding Vertical

Real World Problems/Solutions Horizontal

*HI Provides **END To END** Capability Improvements in Five Key Areas*

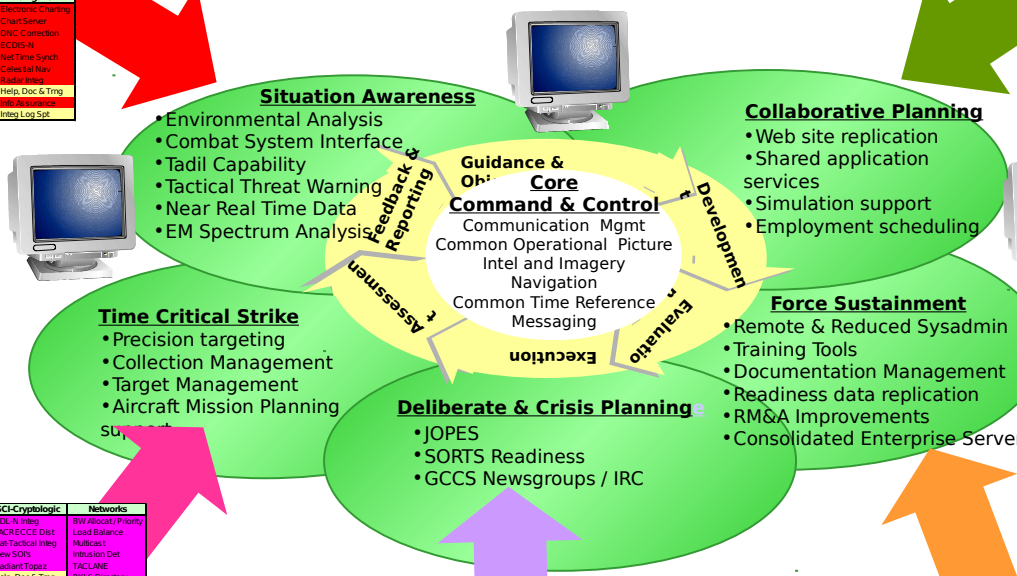
Maintain Situational Awareness/Common Operational Picture

Conduct Collaborative Planning

Execute Operational Missions (e.g. Time Critical Strike)

Ensure Sustainability & Reliability

Support Deliberate and Crisis Planning



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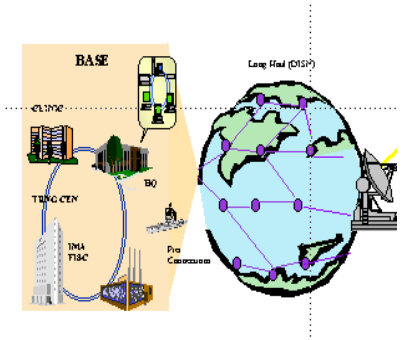
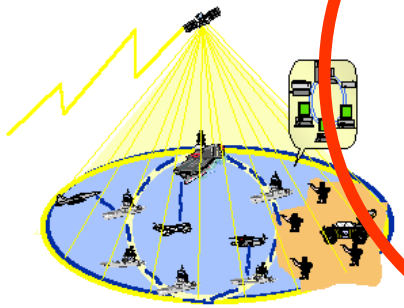
Ship O-Maint	Sat Data Ingest	ATO Gen/Proc	Radiant Topaz	TACLANE
Afloat Supply	NITES II	Trk Replay	Help, Doc & Trng	PKI & Directory
Help, Doc & Trng	Help, Doc & Trng	J OPES Integ	Info Assurance	Colab App Share
Info Assurance	Info Assurance	Tac MIDB/OOB	Integ Log Spt	Web Replication
Integ Log Spt	Integ Log Spt	Image Integ		Comm of Interest
	TADILS	Video Integ		Help, Doc & Trng
	TADIL Mgmt & QA	PTW+Integ		Info Assurance
	Multi TADIL Cap	IPL Integ	Transmission	Integ Log Spt
	S TADIL-J	Combat Sys Integ	Sub HDR	
	Help, Doc & Trng	Tgting & Lnd Trk	UHF Asymetric	Navigation
	Info Assurance	J STARS Integ	IMARSAT 128	Electronic Charting
	Integ Log Spt	C2WC	EHD MDR	Chart Server
		TAMPS I/F	SHF	DNC Correction
		P-3 Support	UHF LOS	ECDIS-N
		Messaging	VHF LOS	Net Time Synch
		Readiness Mon	DMR	Celestial Nav
		Water Sp Mgmt	DWTS	Radar Integ
		Help, Doc & Trng	Help, Doc & Trng	Help, Doc & Trng
		Info Assurance	Info Assurance	Info Assurance
		Integ Log Spt	Integ Log Spt	Integ Log Spt
Medical	Model &Sim			
SAMS	Op Plan COA Eval			
Comp Radgrphy	RECCE Plan Gen			
TMIP-J	Monte Carlo			
Help, Doc & Trng	Help, Doc & Trng			
Info Assurance	Info Assurance			
Integ Log Spt	Integ Log Spt			

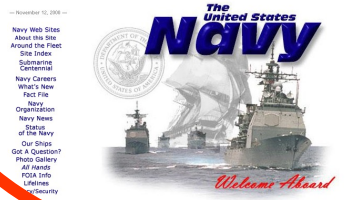
Content

INFRASTRUCTURE | **CONTENT**

NMCI + **IT-21** + **Web Navy**







HORIZONTAL INTEGRATION

"… to transition the Navy to a fully web enabled organization in 2003 subsequent to full operational capability for the Navy/Marine Corps Intranet (NMCI)."

Web Enabling Tenets

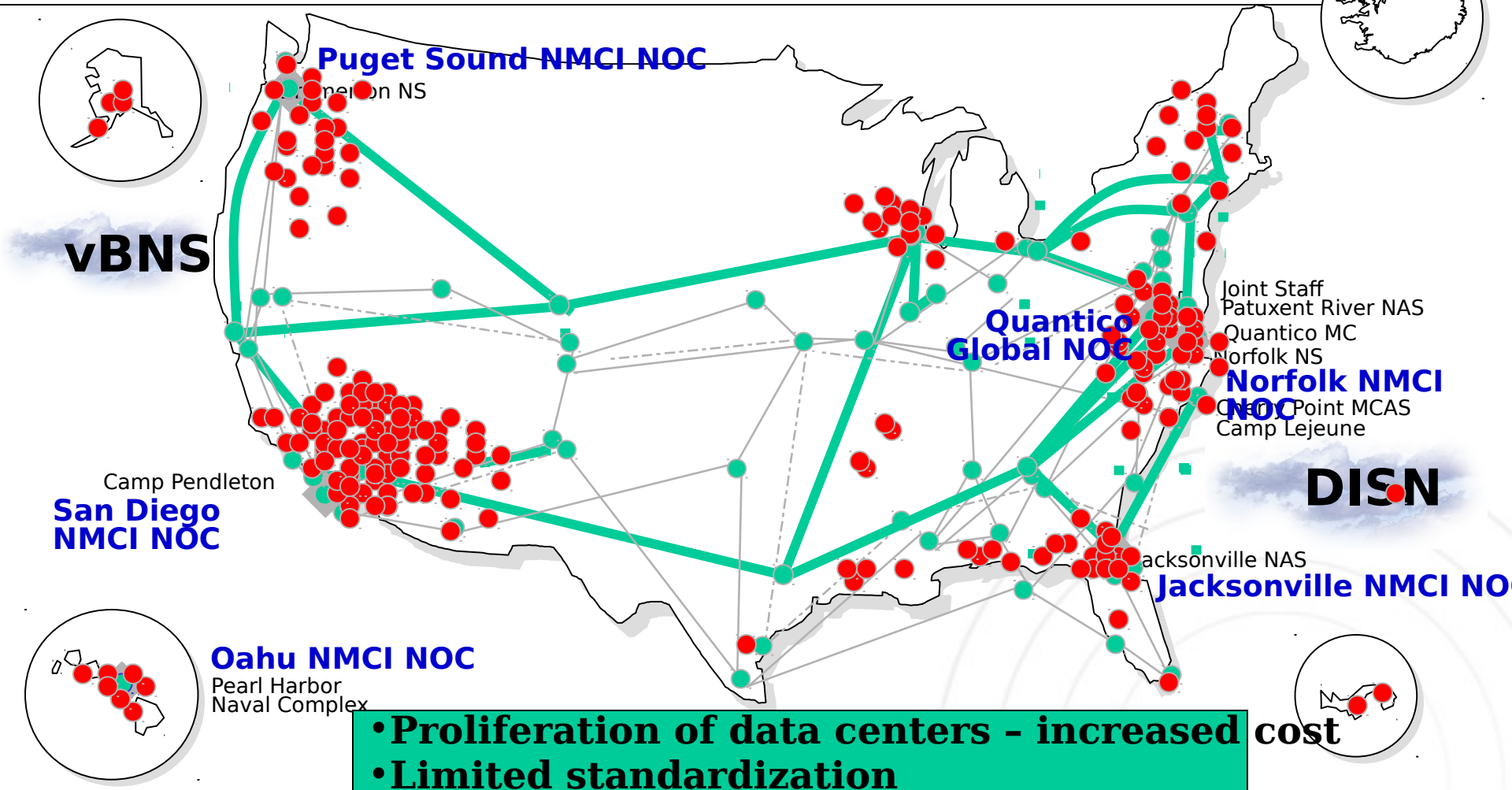
- Process owner retains control of content and associated processes
- Access to required information afloat or ashore
- Supporting end-to-end information delivery services
- Providing privacy, precludes unauthorized access, and preventing denial of service
- Standards to ensure Naval-wide interoperability and to achieve economies
- NMCI/IT-21 will provide the IT infrastructure

NMCI/IT-21 + Content = Capability

Enterprise Solutions
Navy Marine Corps Intranet

SPAWAR

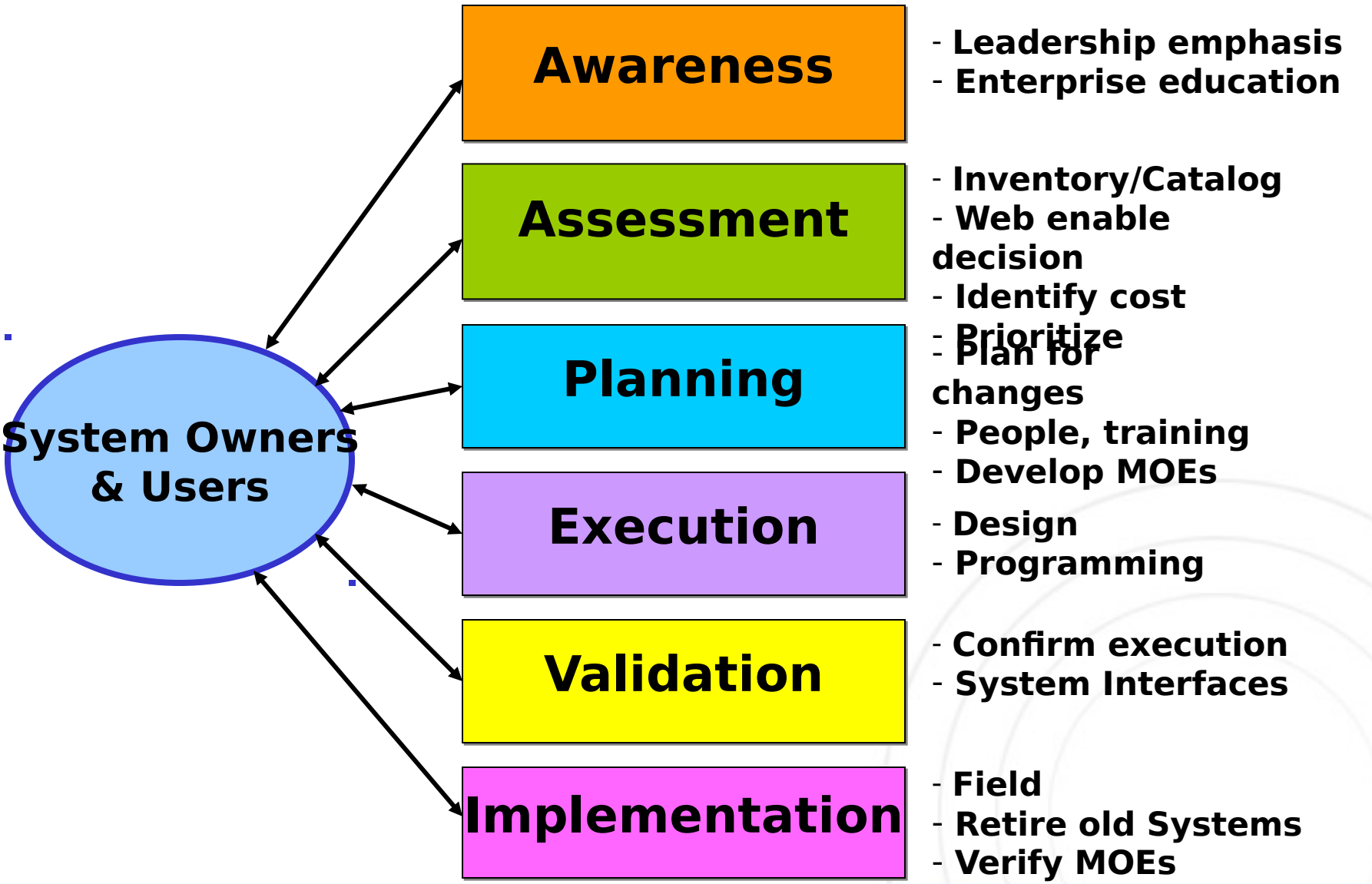
What we don't want...



- **Proliferation of data centers – increased cost**
- **Limited standardization**
- **Performance/security impacts**

OC-3 DISN DS/BMS
OC-48 vBNS+ Back

Next Steps….



- Leadership emphasis
- Enterprise education

- Inventory/Catalog
- Web enable decision
- Identify cost
- Prioritize

- Plan for changes
- People, training
- Develop MOEs

- Design
- Programming

- Confirm execution
- System Interfaces

- Field
- Retire old Systems
- Verify MOEs

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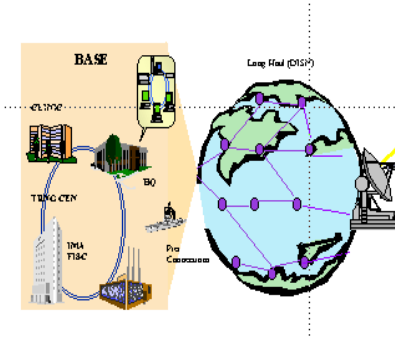

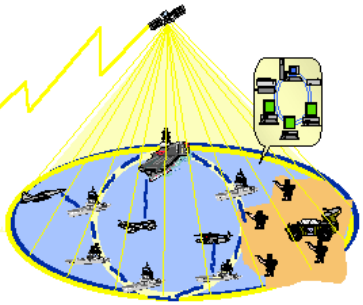

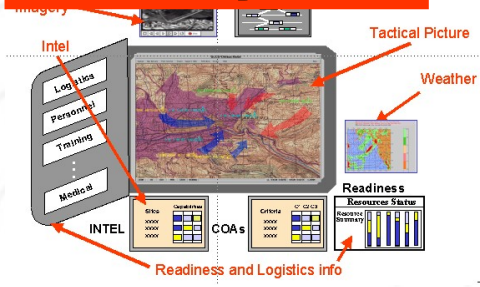

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